

Method and device for reducing the polygon effect in the reversing area of pedestrian conveyor systems

Abstract of the Disclosure

A device and method for reducing the polygon effect that occurs during the course of the reversing of a chain in a pedestrian conveyor, escalator, or moving walkway. The device includes a reversing wheel, at least one gear indirectly or directly acting upon the reversing wheel, at least one power supply unit, an electric driving motor coupled to the at least one gear and the at least one power supply unit such that the driving motor can be driven with a non-constant speed, a function generator, a controlling apparatus coupled to the function generator, at least one position sensor for detecting a phase position of the reversing wheel and transmitting the phase position to the controlling apparatus. In such a device, the controlling apparatus transmits a synchronized set speed value to the power supply unit based on the phase position.

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